28. (New) The substrate of Claim 27, wherein the integrated circuit forms part of the security thread.

29. (New) The substrate of Claim 27, wherein the security thread has a thickness of Cont. 5-60% of the thickness of the substrate.

## SUPPORT FOR THE AMENDMENTS

New Claims 27-29 are supported by originally filed Claims 1 and 5-7. No new matter is believed to be added by entry of these amendments. Claims 1-4 and 8-29 are active.

## **REMARKS**

Applicants would like to thank Examiner Fureman for the helpful and courteous discussion held with Applicants' representative on March 26, 2003. During the discussion it was noted that neither <u>Haghiri</u> nor <u>Brown</u> expressly describe flexible circuits, and provide examples only of "rigid" circuits prepared on a silicon wafer. Furthermore, it was noted that circuits comprising a semiconductive polymer, or circuits printed on flexible substrates are not necessarily flexible.

The rejections of the claims under 35 U.S.C. § 103(a) over the combination of <a href="Haghiri">Haghiri</a>, Brown, the present specification at page 7, line 31 to page 8, line 15, <a href="Giustiniani">Giustiniani</a>, <a href="Bratchley">Bratchley</a>, and <a href="Uetani">Uetani</a> are respectfully traversed. None of the applied references in combination suggest the claimed substrate.

The claimed substrate is made from paper, and has at least one flexible integrated circuit comprising a semiconductive organic polymer. Thus, in one embodiment, a flexible integrated circuit may be incorporated into a security paper, such as bank notes, passports, identity cards, and securities (present specification at page 7, lines 7-10). Conventional rigid integrated circuits are not as suitable for flexible paper substrates, because rigid integrated